

Electronic Acknowledgement Receipt

EFS ID:	4747400
Application Number:	10801208
International Application Number:	
Confirmation Number:	2034
Title of Invention:	Methods of manufacturing semiconductor devices having a ruthenium layer via automatic layer deposition
First Named Inventor/Applicant Name:	Kwang-hee Lee
Customer Number:	20792
Filer:	D. Randal Ayers/Paula Fisher
Filer Authorized By:	D. Randal Ayers
Attorney Docket Number:	5649-1277
Receipt Date:	06-FEB-2009
Filing Date:	16-MAR-2004
Time Stamp:	12:22:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	7303
Deposit Account	500220
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		5649-1277_IDSand1449C.pdf	346792	yes	3
			83be14dce20459fe50de638751926389eb27958		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Information Disclosure Statement Letter		1	2	
	Information Disclosure Statement (IDS) Filed (SB/08)		3	3	
Warnings:					
Information:					
2	Foreign Reference	5649-1277_For_Ref_KR_2002_0045269A.pdf	1063089	no	14
			5dd40f68aaed70452f13f9f98890fa898a0e6446		
Warnings:					
Information:					
3	Foreign Reference	5649-1277_For_Ref_KR_10_2002_0094175A.pdf	1036101	no	10
			a33a5eae356bb159278c986ee6e1b7035232c078		
Warnings:					
Information:					
4	NPL Documents	5649-1277_NPL_US_Office_Action_Pat_App_11616406.pdf	2576083	no	28
			86cd8f308cd1f0506e0729f38e41575ae83487f9		
Warnings:					
Information:					
5	Fee Worksheet (PTO-06)	fee-info.pdf	30058	no	2
			c1adc47491bfcc5b3870bc418eabc04c7ada137		
Warnings:					
Information:					
Total Files Size (in bytes):			5052123		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.